

In the Claims

1. (Previously Presented) An isolated nucleic acid molecule that regulates the expression of a cold shock inducible gene under conditions that elicit a cold-shock response in a bacterium, wherein said isolated nucleic acid molecule consists of nucleotides 1-11 of SEQ. ID NO:55, nucleotides 56-117 of SEQ. ID NO:55, nucleotides 123-135 of SEQ. ID NO:55, SEQ. ID NO:49, or SEQ. ID NO:50.

2.-4. (Cancelled)

5. (Previously Presented) The nucleic acid molecule of Claim 1 consisting of nucleotides +1 to +11 of the *cspA* 5'-UTR (nucleotides 1 to 11 of SEQ. ID. NO. 55).

6. (Previously Presented) The isolated nucleic acid molecule of Claim 1, which interacts with CspA protein.

7.-9. (Cancelled)

10. (Previously Presented) The nucleic acid molecule of Claim 1 consisting of nucleotides +56 to +117 of the *cspA* 5'-UTR (nucleotides 56 to 117 of SEQ. ID. No. 55).

11-13. (Cancelled)

14. (Previously Presented) The nucleic acid molecule of Claim 1 consisting of nucleotides +123 to +135 of the *cspA* 5'-UTR (nucleotides 123 to 135 of SEQ. ID. NO. 55).

15. (Previously Presented) The nucleic acid molecule of Claim 1 consisting of a sequence selected from the group consisting of SEQ ID NO:49 and SEQ ID NO:50.

16. (Previously Presented) A nucleic acid vector that enhances translation of a gene transcript under conditions that elicit a cold-shock response in a bacterium, comprising a downstream box, a sequence coding for said transcript, and a first nucleic acid fragment comprising SEQ. ID NO:48, SEQ. ID NO:49 or SEQ. ID NO:50, wherein said first nucleic acid

fragment is identical to a sequence found in a first bacterial nucleic acid molecule comprising a first cold shock inducible gene having a protein coding region, wherein said first nucleic acid fragment enhances translation of said transcript under conditions that elicit the cold shock response in bacterium, and wherein said nucleic acid vector does not contain the entire protein coding region of the first cold shock inducible gene.

17. (Previously Presented) The nucleic acid vector of Claim 16 further comprising a Shine-Dalgarno sequence.

18. (Previously Presented) A nucleic acid vector of Claim 16 further comprising a cold box, wherein said vector enhances translation of a gene transcript and directs prolonged production of a protein encoded by the transcript under conditions that elicit a cold shock response in a bacterium.

19. (Previously Presented) A nucleic acid vector that enhances the translation of a gene transcript under conditions of physiological stress that elicit a cold shock response of a bacterium, and represses the expression of the gene product under physiological conditions comprising:

a first nucleic acid fragment comprising SEQ. ID NO:48, SEQ. ID NO:49 or SEQ. ID NO:50, said first nucleic acid fragment being identical to a sequence found in a first bacterial nucleic acid molecule comprising a first cold shock inducible gene having a protein coding region;

a second nucleic acid fragment comprising nucleotides 56-117 of SEQ. ID NO:55;

a cold box comprising nucleotides 1-11 of SEQ. ID NO:55; and

a downstream box;

wherein said vector does not contain the entire protein coding region of the first cold

shock inducible gene.

20 -22. (Cancelled)

23. (Previously Presented) The vector of Claim 16 further comprising a coding region of a heterologous gene.

24. (Previously Presented) The vector of Claim 18 further comprising a coding region of a heterologous gene.

25. (Previously Presented) The vector of Claim 19, further comprising a coding region of a heterologous gene.

26. (Previously Presented) The vector of Claim 16, further comprising a promoter and at least one restriction site downstream of said first nucleic acid fragment and said downstream box for inserting an additional DNA fragment.

27. (Previously Presented) The vector of Claim 18, further comprising a promoter and at least one restriction site downstream of said cold box, said first nucleic acid fragment, and said downstream box for inserting an additional DNA fragment.

28. (Previously Presented) A nucleic acid vector that enhances translation of a gene transcript under conditions of physiological stress that elicit a cold shock response of a bacterium, and represses expression of the gene product under physiological conditions comprising:

a first nucleic acid fragment comprising SEQ. ID NO:48, SEQ. ID NO:49 or SEQ. ID NO:50, said first nucleic acid fragment being identical to a sequence found in a first bacterial nucleic acid molecule comprising a first cold shock inducible gene having a protein coding region;

a second nucleic acid fragment comprising nucleotides 56-117 of SEQ. ID NO:55;

a cold box comprising nucleotides 1-11 of SEQ. ID NO:55;
a downstream box;
a promoter; and
at least one restriction site downstream of said cold box, said first nucleic acid fragment, said second nucleic acid fragment, and said downstream box for inserting an additional DNA fragment.

29 -31. (Cancelled)

32. (Previously Presented) The vector of Claim 26, wherein said additional DNA fragment comprises a coding region of a heterologous gene.

33. (Previously Presented) The vector of Claim 27, wherein said additional DNA fragment comprises a coding region of a heterologous gene.

34. (Previously Presented) The vector of Claim 28, wherein said additional DNA fragment comprises a coding region of a heterologous gene.

35. (Previously Presented) A transformed bacteria containing the vector of Claim 16.

36. (Previously Presented) A transformed bacteria containing the vector of Claim 18.

37. (Previously Presented) A transformed bacteria containing the vector of Claim 19.

38- 49. (Cancelled)

50. (Previously Presented) A vector capable of expressing a heterologous gene in a bacterium at physiological temperature or under conditions that elicit a cold shock response comprising, in the following order: a promoter, at least a portion of a 5'-UTR of a cold shock inducible gene, a Shine-Dalgarno sequence, a translation initiation codon, a downstream box, and at least one restriction enzyme recognition site for insertion of a heterologous protein coding region, wherein said portion of the 5'-UTR of a cold shock inducible gene is a regulatory

element selected from the group consisting of nucleotides 1-11 of SEQ. ID NO:55, nucleotides 56-117 of SEQ. ID NO:55, nucleotides 123-135 of SEQ. ID NO:55, SEQ. ID NO:49 and SEQ. ID NO:50.

51.-52. (Cancelled)

53. (Previously Presented) A transformed bacteria containing the vector of Claim 50.

54.-65. (Cancelled)